

FIG.1

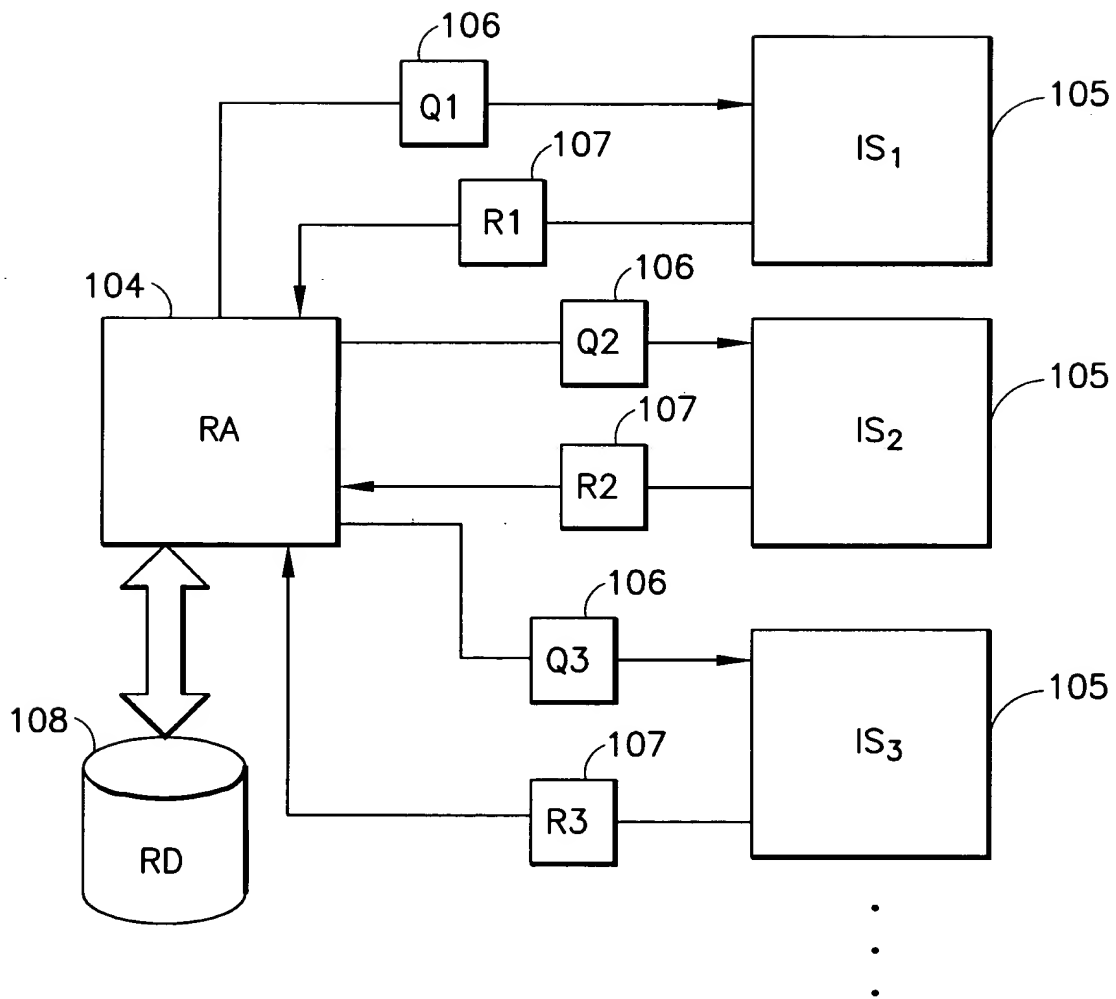


FIG.2

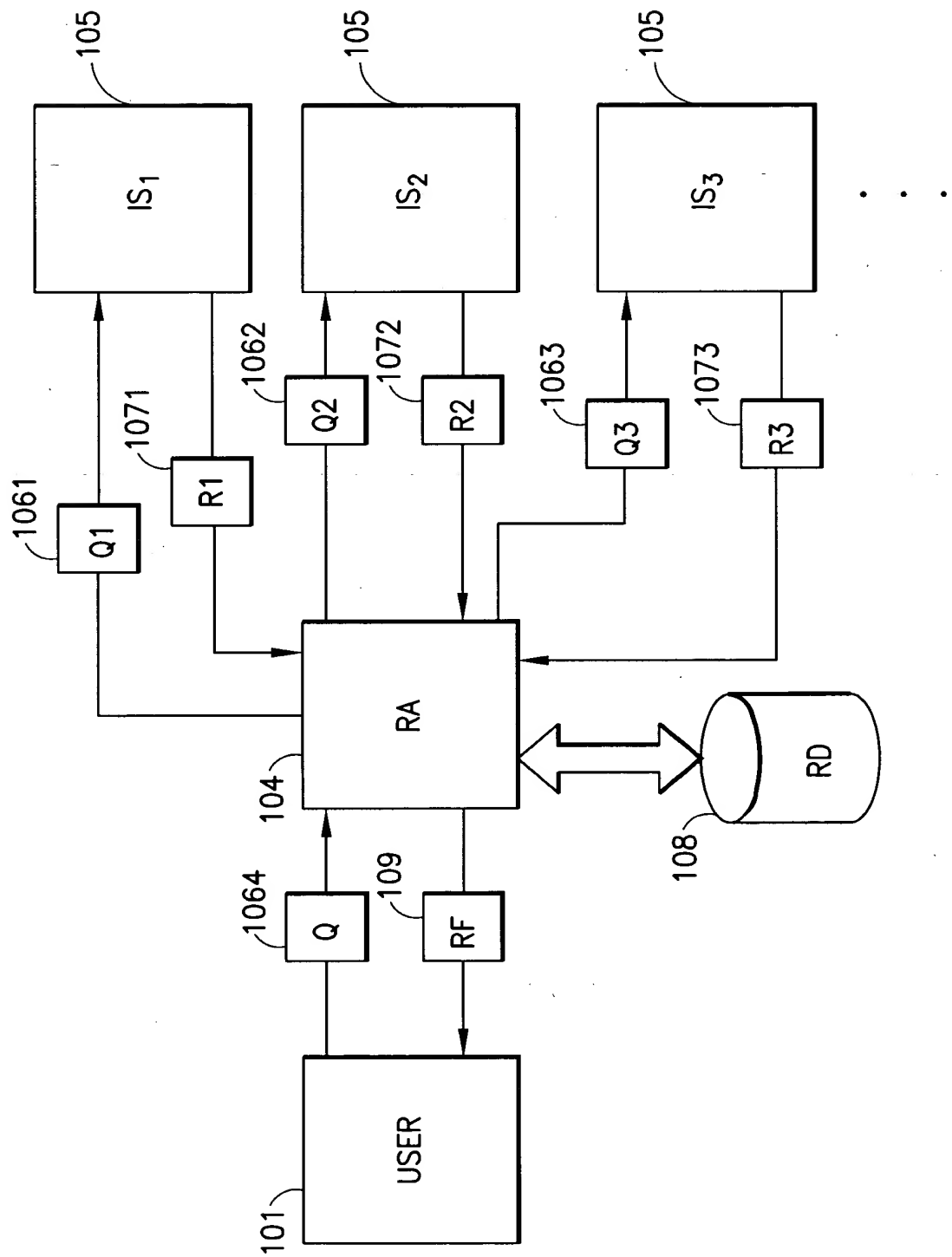


FIG.3

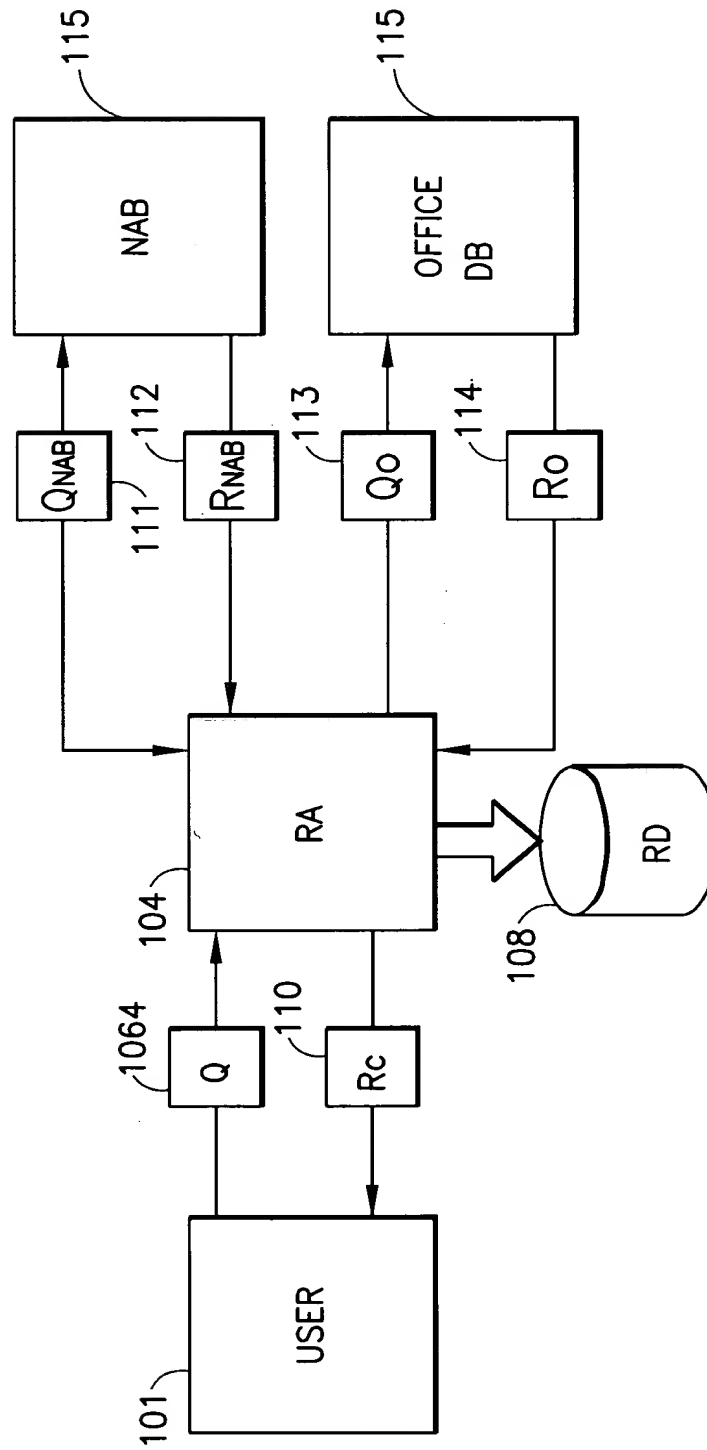


FIG. 4A

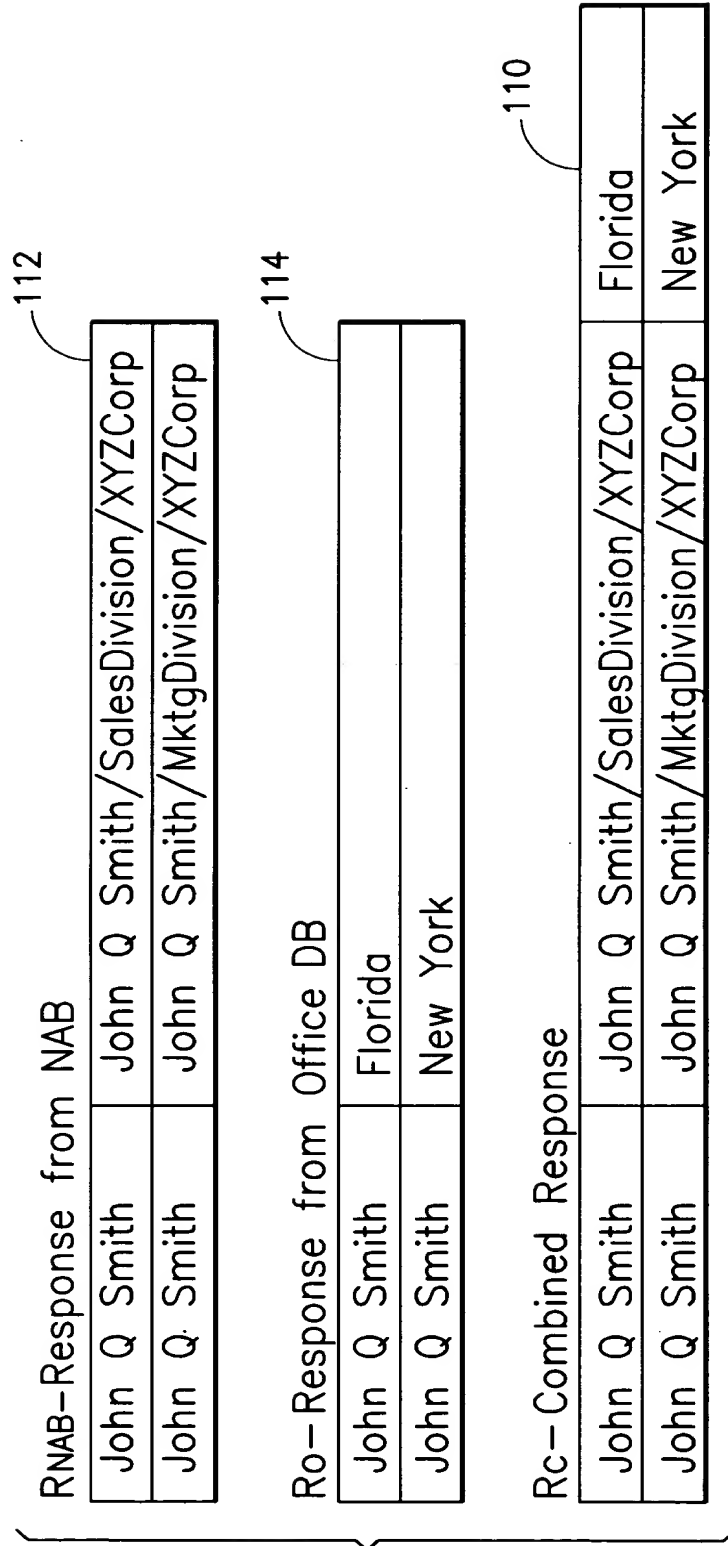


FIG.4B

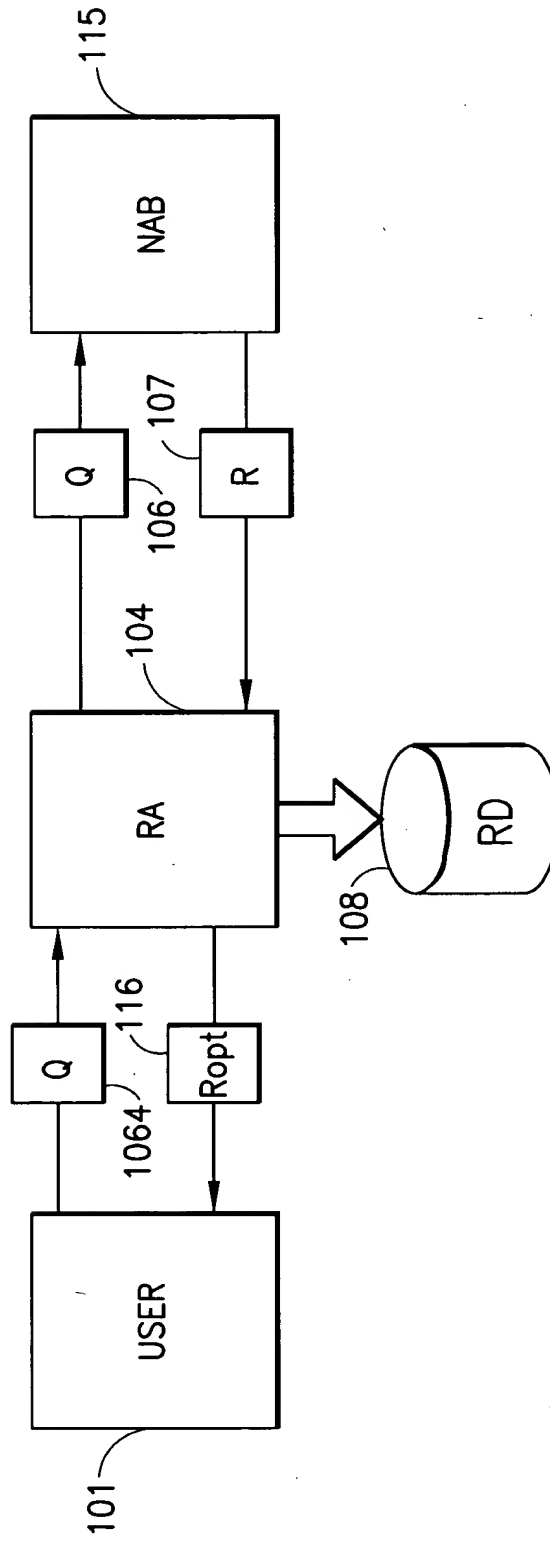


FIG. 5A



Query—on behalf of George A Jones/MktgDivision/XYZCorp

e-mail name for **John Smith?**

1064

Response

John Q Smith	John Q Smith/SalesDivision/XYZCorp
John Q Smith	John Q Smith/MktgDivision/XYZCorp

107

Relationship Data—for George A Jones/MktgDivision/XYZCorp

John Q Smith/SalesDivision/XYZCorp	10
John Q Smith/MktgDivision/XYZCorp	20

1081

1082

1080

Sorted Response

John Q Smith	John Q Smith/MktgDivision/XYZCorp
John Q Smith	John Q Smith/SalesDivision/XYZCorp

116

FIG.5B

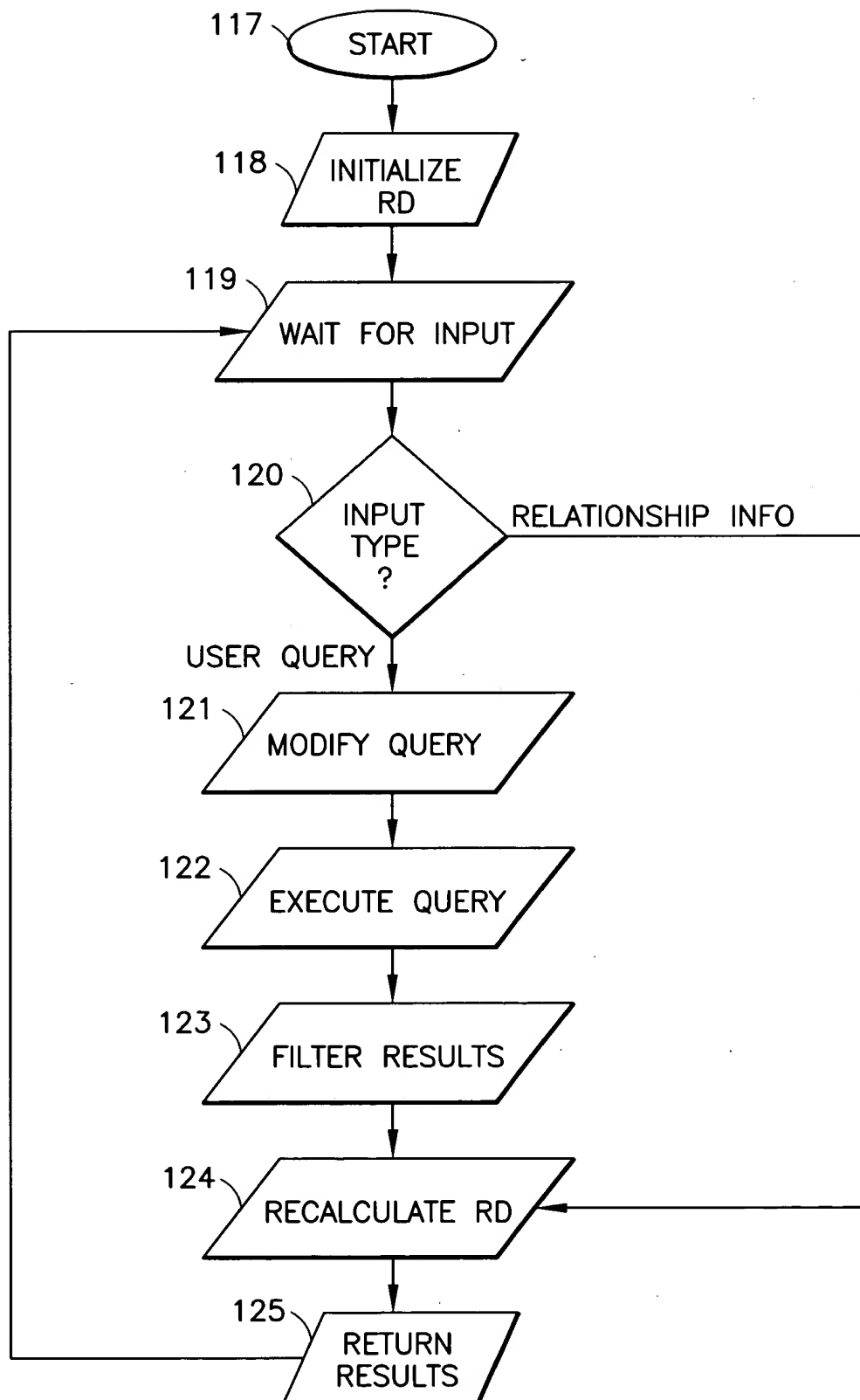
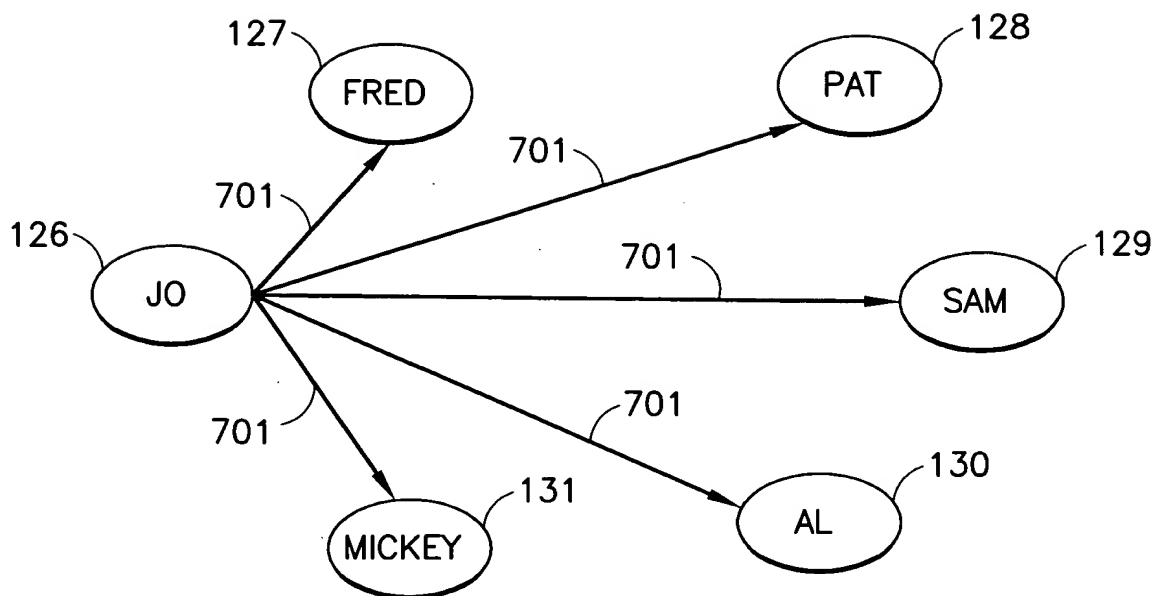


FIG.6



RELATIONSHIP VALUES FOR "JO" (700)

	<u>FRED</u>	<u>PAT</u>	<u>SAM</u>	<u>AL</u>	<u>MICKEY</u>
RI("ORG CHART")	0.8	0.5	0.5	0.1	0.0
RI("MAILING LIST")	0.7	0.6	0.2	0.0	0.5
RI("CALENDAR")	0.2	0.6	0.6	0.0	0.1
R("JO") (SUM)	1.7	1.7	1.3	0.1	0.6

PREFERENCE RATINGS FOR INFORMATION SOURCES (702):

{P("ORG CHART")=0.2, P("MAILING LIST")=0.5, P("CALENDAR")=0.3}

WEIGHTED RELATIONSHIP VALUES (703)

RP("JO", (FRED...)) 0.57 0.58 0.38 0.02 0.28

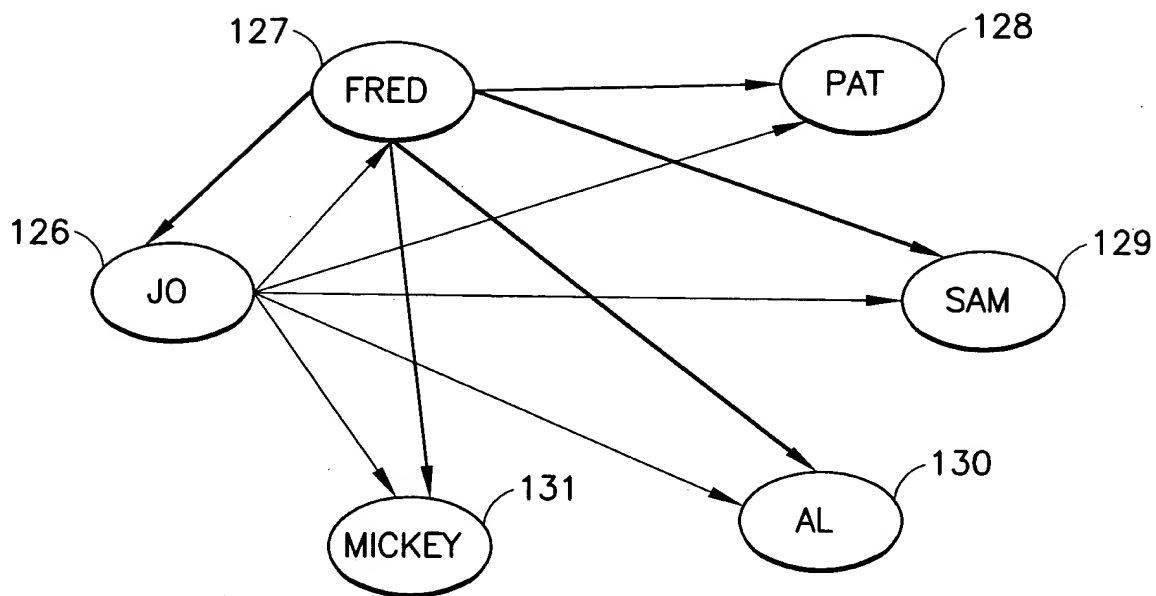
RELATION-GROUP CUTOFF (704)

RGcutoff = 0.35

RELATION-GROUPS FOR "JO" (705)

RG("JO")={FRED, PAT, SAM}

FIG.7A



WEIGHTED RELATIONSHIP VALUES FOR FRED (706)

	<u>PAT</u>	<u>SAM</u>	<u>AL</u>	<u>MICKEY</u>	<u>JO</u>
RP("FRED", Y)	0.4	0.6	0.2	0.8	0.6

DERIVED RELATION-GROUP CUTOFF (707)

DRGcutoff = 0.5

DERIVED RELATION-GROUP FOR JO (708)

DRG("JO")={FRED, PAT, SAM, **MICKEY**}

FIG.7B

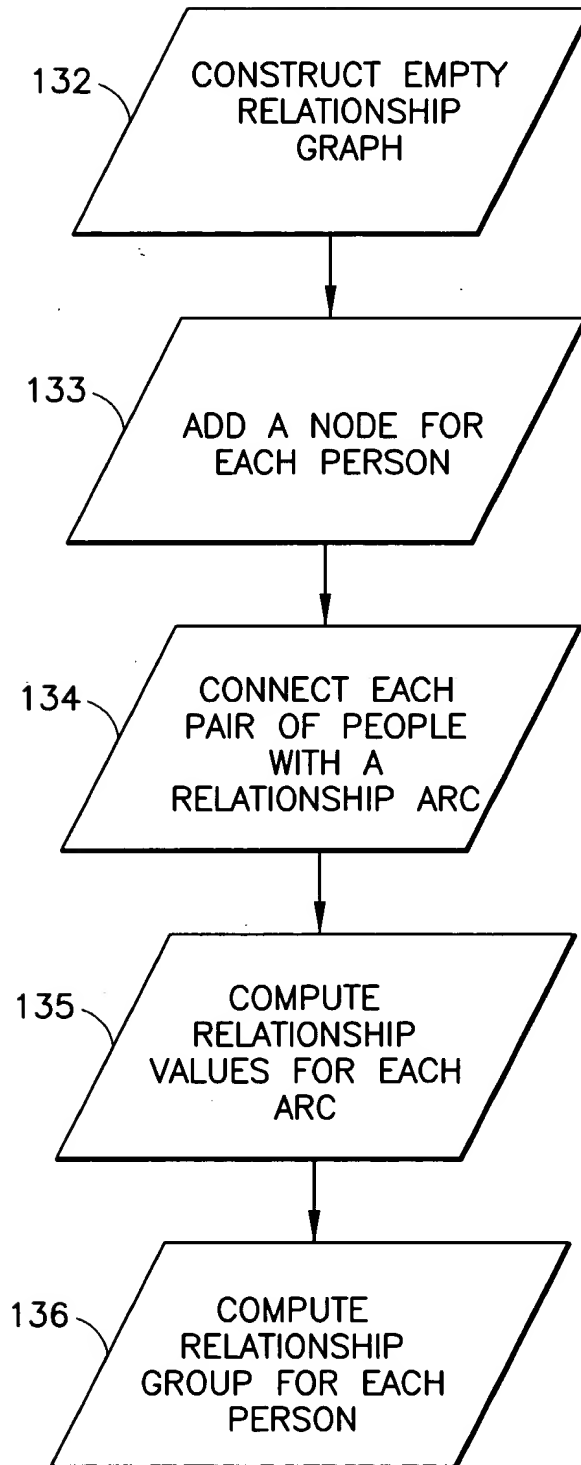


FIG.8

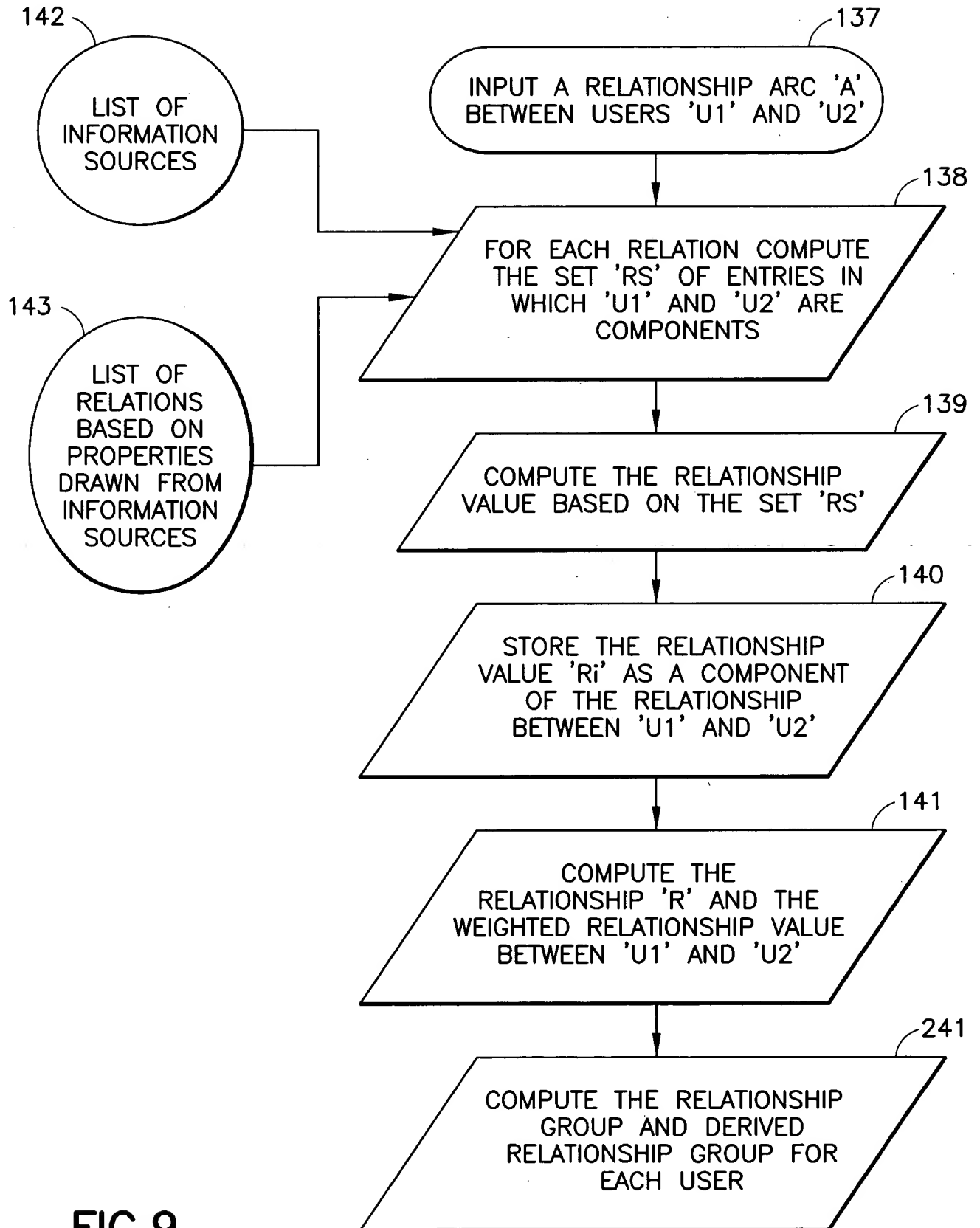


FIG.9

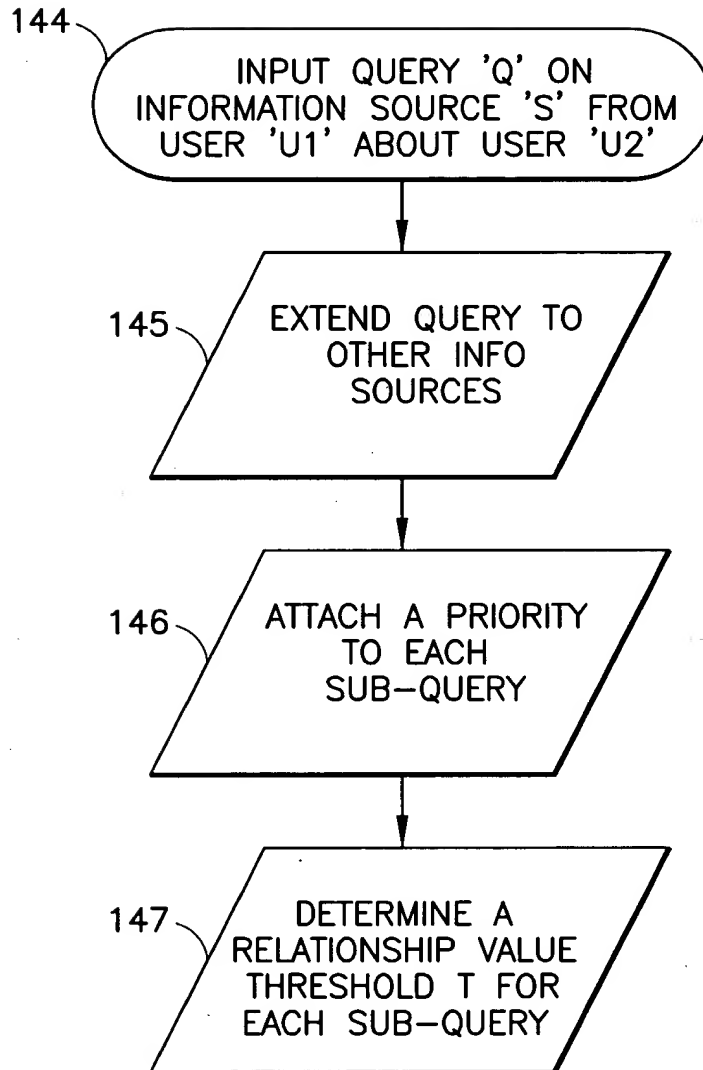
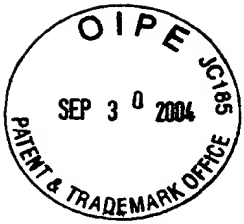


FIG.10

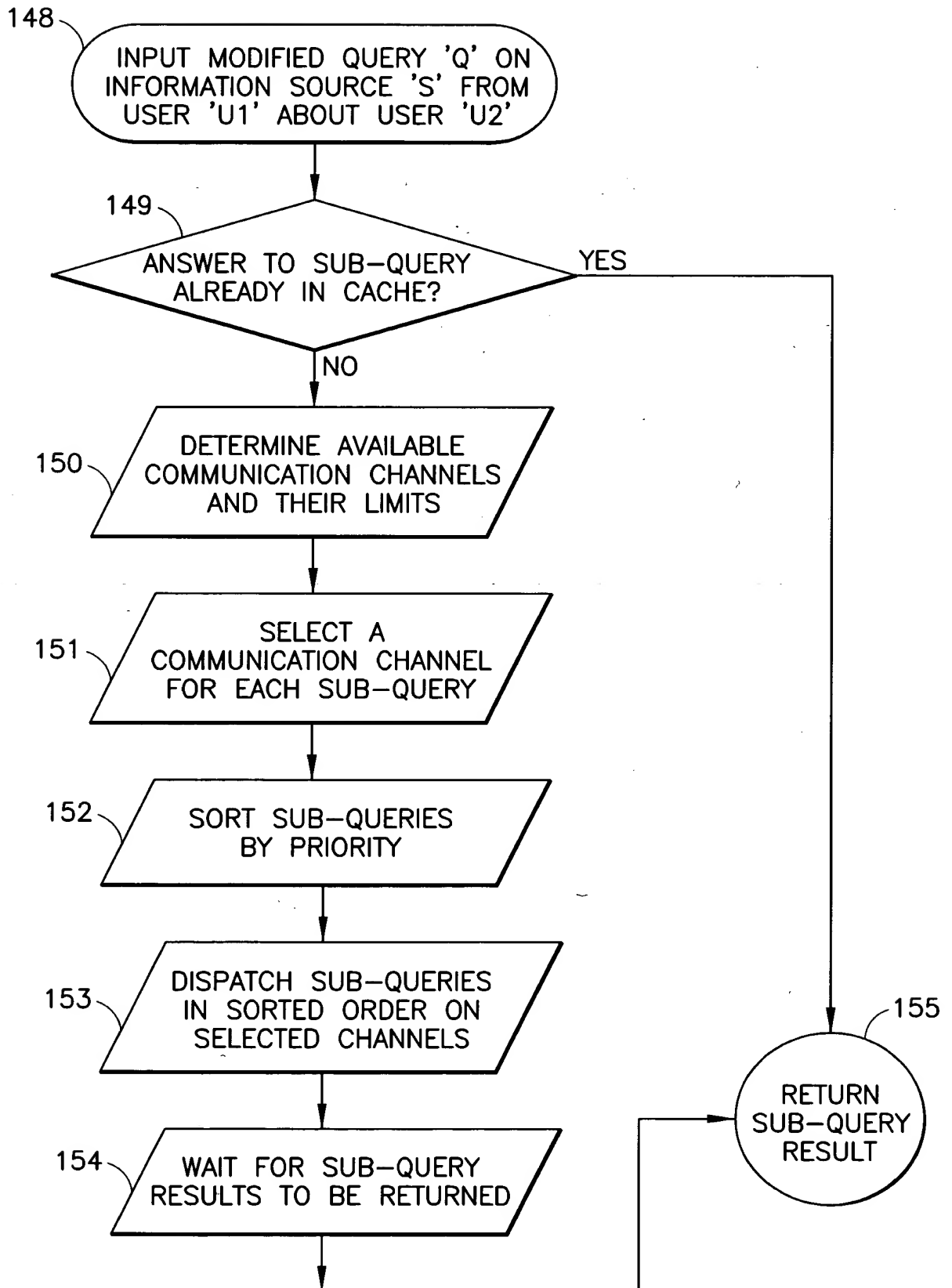


FIG.11

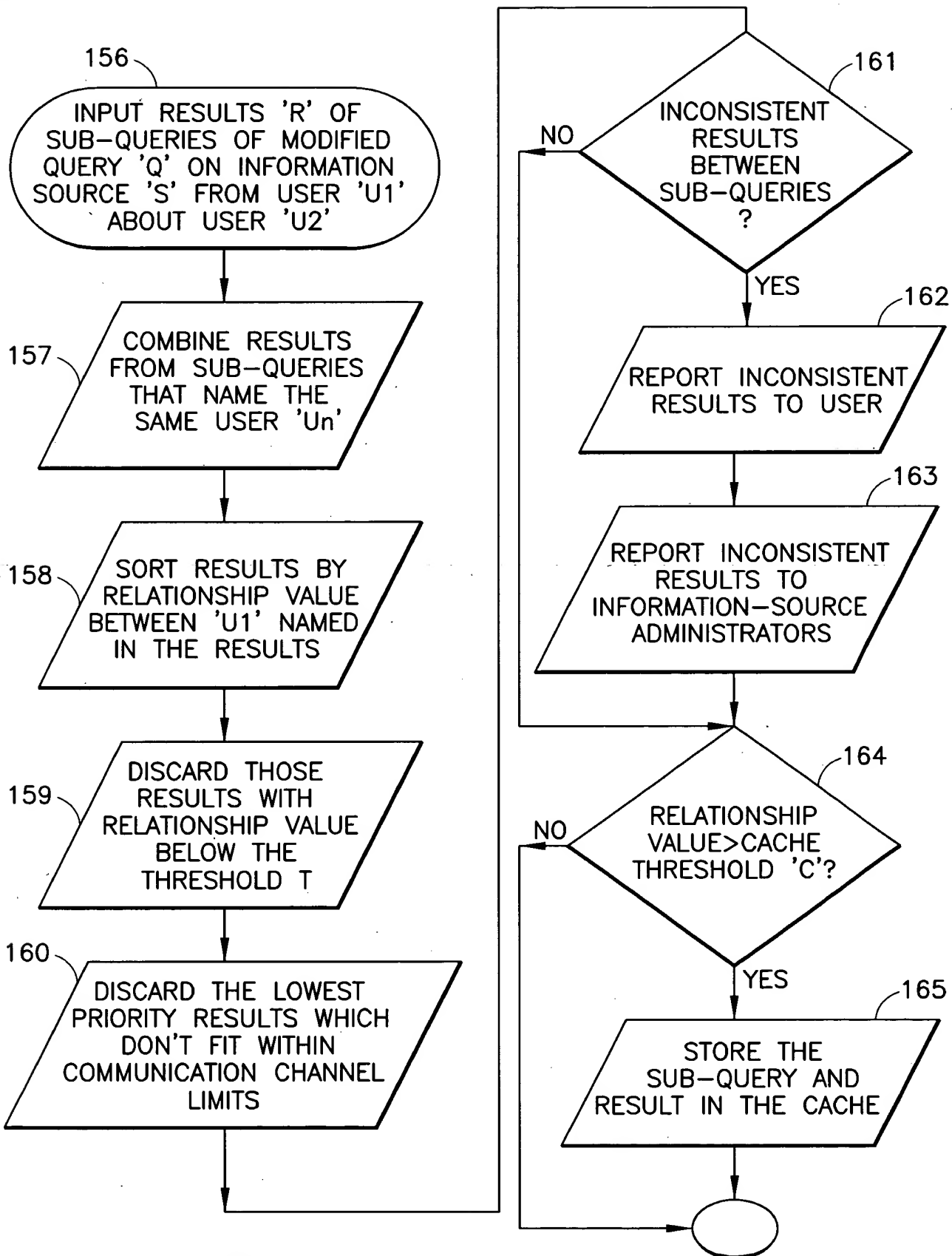


FIG.12